

Generation IV Roadmap NERAC Subcommittee (GRNS) Meeting
Dec. 18-19, 2000
Meeting Report

The GRNS met at the Electric Power Research Institute (EPRI) Headquarters in Palo Alto, CA, December 18-19, 2000.

The next meeting of the GRNS is tentatively scheduled for March 7-8, 2001 in Washington, DC. A meeting is also planned for May 30-31, 2001, tentatively in Boston.

Key Items Discussed:

- 1) **Goals.** The goals of Generation IV technology were discussed. On Dec. 6, 2000 a revised set of goals was distributed to GRNS, DOE and the Roadmap Integration Team (RIT) members for comment. RIT/DOE comments and suggestions for revised goal statements were submitted on Dec. 14. These and comments sent in by others were discussed during the meeting, and agreement on goal statements were reached on most goals. Transparency, risk communication, and public acceptance/involvement were also discussed for consideration as individual goals, a single overarching goal, or to be included in the preamble. Comments from discussions will be incorporated and a final set of goals distributed to the GRNS, DOE, and RIT for agreement. The goals need to be finalized to assist the technical working groups (TWG) in their work and to present to the full NERAC at their next meeting on January 11, 2001.
- 2) **Preamble.** The preamble to the goals was revised based on the discussions at the Nov. 16-17 GRNS meeting. They were briefly discussed at this meeting. The issues of transparency, risk communications and public involvement as part of an overarching goal to be mentioned in the preamble or an introduction to the Generation IV goals were discussed. A final draft preamble will be prepared for review and agreement prior to the NERAC meeting.
- 3) **Technical Working Group (TWG) membership.** Numbers of members from each community was discussed. International participation will start after the next generation IV International Forum (GIF) meeting, currently scheduled for March 2001. Specific names for TWG co-chairs and members were discussed. Expertise in several cross-cutting areas are to be included among the TWGs, including constructability, I&C, human factors, information technology, risk, fuels, economics and balance of plant. The RIT is to continue efforts to finalize members and put contracting arrangements in place where required so that TWGs can start work in January 2001.
- 4) **Roadmap Development Guide (RDG).** A draft Roadmap Development Guide was distributed to all participants before the meeting. It was discussed in the meeting and many questions arose regarding the details of the roadmap development process. The discussion offered several recommendations to improve the current draft. An updated draft will be distributed in January 2001.
- 5) **Generation 3+ technologies.** The draft selection criteria, strategic enabling objectives, overarching goal for development and deployment, and timing for Generation III+ and fast-track Generation IV systems were reviewed. It was agreed to change the name for these to "Near-term deployment" technologies, i.e., those that can likely be brought to market in the next ten years. Industry will lead the effort in development and deployment of these systems. DOE's role will be primarily in support of government licensing and regulatory activities, such as proof of principle testing, integrated safety tests, early site

permits and combined construction/ operating licenses. This TWG should work closely with the Nuclear Energy Institute Task Force on New Nuclear Power Plant Deployment. A draft charter for the Near-Term Deployment TWG will be developed by two industry representatives of GRNS.